

ATSARKIN, V.A.; GERASIMOVA, E.A.; MATVEYEVA, I.G.; FRANTSESSON, A.V.

Paramagnetic resonance of a trivalent chromium ion in the
crystal lattice of magnesium tungstate. Zhur. eksp. i teor.
fiz. 43 no.4:1272-1274 O '62. (MIRA 15:11)

1. Institut radiotekhniki i elektroniki AN SSSR.
(Paramagnetic resonance and relaxation)
(Chromium)
(Magnesium tungstate crystals)

ATSARKON, V.A., ZHABOTINSKIY, M.YE., FRANTSESON, A.V.

"Electron spin resonance of trivalent chromium ions in spinel and magnesium tungstate crystals."

Report submitted to the Third Intl. Conf. on Quantum Electronic,
Paris, France 11-15 Feb 1963

ATSARKIN, V.A.; POPOV, V.I.

Spin-lattice relaxation of trivalent chromium ions in magnesium
and zinc tungstates. Zhur. eksp. i teor. fiz. 47 no.3:865-
871. S '64. (MFA 17:11)

1. Institut radiotekhniki i elektroniki AN SSSR.

L 2297-66 ENT(1)

ACCESSION NR: AP5019227

AUTHOR: Atsarkin, V. A.

TITLE: Concerning the mechanism of paramagnetic spin lattice relaxation at low temperatures

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965,
148-158

TOPIC TAGS: chromium, spin lattice relaxation, paramagnetic relaxation, paramagnetic material

ABSTRACT: The spin-lattice relaxation of the chromium ion was studied experimentally in several paramagnetic crystals (aluminum acetylacetone, zinc tungstate, potassium cobaltcyanide) as a function of the temperature and concentration of the paramagnetic impurity. The purpose of the investigation was to verify the assumption made by a number of authors that the spin-lattice relaxation is speeded up by auxiliary centers comprising exchange pairs of ions. The spin-lattice relaxation was therefore investigated in crystals with a large lattice constant, in which strong exchange interaction between the paramagnetic ions does not exist. The relaxation rate of the exchange pairs is calculated theoretically, and the condition under which cross relaxation between isolated ions and exchange pairs is possible
Card 1/2

49 UR/0056/65/049/001/0148/0158

3/B

21,44,55

L 2297-66

ACCESSION NR: AP5019227

15

are considered. The results furnish evidence that in a certain interval of concentrations and temperatures the relaxation process proceeds in two stages, and that the mediator between the paramagnetic impurity and the crystal lattice can be pairs of exchange-coupled ions. The results are in good agreement with experiment it is assumed that the exchange pairs that play the main role in the spin-lattice relaxation process have a relatively small interaction (exchange integral) approximately equal to 10^{-2} cm^{-1} . "The author thanks M. Ye. Zhabotinsky, A. V. Frantsesson, and M. I. Rodek for interest in the work and useful discussions, and I. A. Kuz'min for help with the adjustment of the apparatus." Orig. art. has: 5 figures and 11 formulas.

ASSOCIATION: Institut radiotekhniki i elektroniki Akademii nauk SSSR (Institute of Radio Engineering and Electronics, Academy of Sciences SSSR). 44, 85

SUBMITTED: 21Feb65

ENCL: 00

SUB CODE: SS

NO REF Sov: 011

OTHER: 015

Card 2/2 Df

L 6453-66 EWT(1)/EWT(m)/EPF(c)/EWP(t)/EWP(b)
ACCESSION NR: AP5019850

IJP(c) JD/WW/GG
UR/0181/65/007/008/2367/2369

44,66 44,66
AUTHOR: Atsarkin, V. A.; Lushnikov, V. G.; Sorokin, L. P.

TITLE: Electron paramagnetic resonance of trivalent gadolinium and iron ions in synthetic calcite

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2147-2369

TOPIC TAGS: electron paramagnetic resonance, gadolinium, iron, calcium carbonate, EPR spectrum, selection rule

ABSTRACT: The EPR spectra were investigated using calcite crystals grown by the hydrothermal synthesis method, described by one of the authors elsewhere (Lushnikov, Tr. Vses. nauchno-issl. inst. sinteticheskikh mineral'nykh soedinenii, v. 8, 173, 1964). The EPR spectrum was investigated with a superheterodyne radio spectrometer operating at 3 cm and at room temperature. The constants of the spin Hamiltonian of the trivalent ions replacing calcium in the calcite crystal lattice are calculated. The EPR spectrum of gadolinium consists of two groups of 7 lines each, belonging to two magnetically-nonequivalent systems of ions. The iron spectrum consists of five absorption lines corresponding to a change $\Delta m = \pm 1$ in the magnetic quantum number. The spin Hamiltonians are written out for both substances and their constants are evaluated. The spin lattice relaxation of Gd^{3+} in the calcite lattice was deter-

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I 5453-66

ACCESSION NR: A15019850

mined for the $-1/2 \leftrightarrow -3/2$ transition by the pulsed saturation method at 3 cm. The relaxation time was 1.4 millisecond and 5 μ sec at 4.2 and 1.75K, respectively. In the case of iron, the relaxation time for the $1/2 \leftrightarrow 3/2$ transition was 1.0 millisecond at 4.2K. Orig. art. has: 1 figure and 2 formulas.

ASSOCIATION: Institut radiotekhniki i elektroniki AN SSSR, Moscow (Institute of Radio Engineering and Electronics AN SSSR) *44, 55*

SUBMITTED: 26Feb65

ENCL: 00

SUB CODE: 88

NR REF Sov: 003

OTHER: 004

DW
Card 2/2

L 10574-66	EWT(1)/EWT(m)/EEC(l)-2/T/EWP(t)/EWP(k)/EWP(b)/EWA(m)-2/EWA(c)	IJP(c)
ACC NR: AP5025393	WG/JD/WW/GG	SOURCE CODE: UR/0181/65/007/010/3099/3101
AUTHOR: Atsarin, V. A.; Litovkin, L. P.; Meyl'man, M. L.	44, 55	44, 55
ORG: none	21, 44, 55	67 B
TITLE: Electron paramagnetic resonance and spin-lattice relaxation of nonequivalent chromium ion systems in zinc tungstate single crystals		
SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3099-3101		
TOPIC TAGS: zinc compound, tungstate, chromium, EPR spectrum, spin lattice relaxation, single crystal, paramagnetic ion		
ABSTRACT: The authors study the electron paramagnetic resonance spectrum and temperature dependence of spin-lattice relaxation in admixed systems of Cr ³⁺ ions in ZnWO ₄ single crystals grown from a melt by the Czochralski method. The number of paramagnetic systems of ions and the position of the paramagnetic axes of these systems with respect to the crystallographic axes were determined by the "spherical plotting" method (B. I. Tsukerman, M. L. Meyl'man, L. P. Sorokina, Kristallografiya, 7, 224, 1962). At room temperature at a frequency of ~9.4 Gc in specimens with various Cr ³⁺ concentrations (Cr/Zn ~ 0.1-0.5% in the initial charge) the pattern observed (in a field H ~ 3300 oersteds) was symmetric with respect to plane (010) of the crystal, corresponding to a monoclinic system. It was found that there is one main system and four secondary (pairwise-equivalent) systems of ions. The axial orientations		
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ACC NR. AP5025392

of these systems are tabulated below.

Axial orientation of paramagnetic complexes
with respect to the crystal axes in ZnWO₄

	<i>x</i> ₁	<i>y</i> ₁	<i>z</i> ₁	<i>x</i> ₂	<i>y</i> ₂	<i>z</i> ₂	<i>x</i> ₃	<i>y</i> ₃	<i>z</i> ₃
a	90°	93°30'	3°30'	104°0'	100°30'	24°50'	76°00'	100°30'	24°50'
b	0°	90°	90°	24°10'	59°30'	68°40'	24°00'	80°30'	111°10'
c	90	3°30'	86°30'	85°10'	14°00'	76°00'	94°40'	14°10'	76°00'

	<i>x</i> ₁	<i>y</i> ₁	<i>z</i> ₁	<i>x</i> ₂	<i>y</i> ₂	<i>z</i> ₂
i	76°00'	96°40'	16°00'	103°5'	96°40'	16°00'
j	16°00'	80°00'	102°30'	16°00'	99°50'	77°20'
k	97°50'	12°00'	89°00'	82°00'	12°00'	80°00'

The ratio of line intensities for systems I, II and IV (with a 0.4% concentration of Cr in the charge) is ~50:15:1. A qualitative study of the effect of compensating

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L 10574-66

ACC NR: AP5025392

dopants (Li, Na) on the line intensity ratio of the fundamental and secondary ion systems showed that an increase in the concentration of Li^{+} ions causes a reduction in the intensities of electron paramagnetic resonance lines in secondary systems II and III; at a concentration of Li 6% (in the charge) the spectrum for these systems completely vanishes. The addition of sodium as a compensating impurity also attenuates the lines in systems II and III; however, these spectra were never completely eliminated in this case. An increase in Li concentration results in somewhat of an increase in the relative intensity of the electron paramagnetic resonance lines for systems I (fundamental), IV and V. The line intensities for systems IV and V were too small in all specimens for analysis of the electron paramagnetic resonance spectra. The resonance absorption spectra of systems I and III are analyzed in detail. A theoretical model is proposed for explanation of the experimental data. Orig. art. has: 3 figures, 1 table.

SUB CODE: 20/ SUBM DATE: 01Apr65/ ORIG RIF: 004/ OTH REF: 001

HW
Card 3/3

94300 (1635,1138,1143)

84069
S/181/60/002/009/010/036
B004/B056

AUTHORS: Atsarkin, V. A., Mazel', Ye. Z.

TITLE: The Effect of Heat Treatment of Silicon Upon the Lifetime
of Non-equilibrium Charge Carriers

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 9, pp. 2089-2094

TEXT: Silicon samples were heated to $400 - 600^{\circ}\text{C}$ at $1 \cdot 10^{-5}$ torr, after which they were either slowly cooled or quenched in vacuum-oil. n-type and p-type silicon samples were used, which had been produced by Chokhral'skiy's method in a helium atmosphere. Preliminary experiments showed that in silicon with a given resistivity ρ and an average lifetime τ_0 of the carriers, a certain number of recombination centers determinable after quenching corresponds to each temperature, without the duration of heating (5 - 90 min) exerting any influence. The following experiments were therefore carried out with heating lasting 10 min. Fig. 1 shows the lifetime τ after quenching as a function of $1/T$. The number N of recombination centers is proportional to $1/\tau$ and $1/T$. The relation $N = A \exp(-E/kT)$ was

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The Effect of Heat Treatment of Silicon Upon S/181/60/002/009/010/036
the Lifetime of Non-equilibrium Charge Carriers B004/B056

found for the investigated temperature range, where A is a constant, $\varepsilon = (0.8 \pm 0.1)$ ev. Samples with the same q but different τ_0 after quenching yielded also a different τ , in which case, however, also τ decreased with decreasing τ_0 . The density of the dislocations was determined by means of etching and, as shown in Table 1, a dependence on this density was found both for τ_0 and τ . Fig. 2 shows τ/τ_0 as a function of the cooling rate (for non-quenched samples). Up to a rate of 40-50 degrees/min τ/τ_0 depends considerably on it, whereas between 40-50 and 200-250 degrees/min τ/τ_0 remains nearly constant. The authors call cooling at a rate of 200 degrees/min "technical quenching". Table 2 gives the values for silicon treated in this way. Quenched silicon was heated once more and compared with samples that had undergone no previous heat treatment (Table 3). In the case of samples which were heated to 600°C , quenched, and again heated to 600°C , τ no longer attained the original value, whereas in the test samples, τ remained unchanged or even increased. At 400°C , however, the original value of τ was again attained with quenched samples. From their experiments the authors draw the conclusions that at $400\text{-}600^{\circ}\text{C}$, not only the temperature, but also the quenching process plays a part in the formation of recombination centers. There are 2 figures, 3 tables, and 11 references: 2 Soviet and

Card 2/3

The Effect of Heat Treatment of Silicon Upon S/181/60/002/009/010/036
the Lifetime of Non-equilibrium Charge Carriers B004/B056

8 US.

SUBMITTED: February 21, 1959 (initially) and
July 30, 1959 (after revision)

✓

Card 3/3

ATSIROV, Yu.

A.S.Popov, great Russian scientist and inventor of the radio;
on the one-hundredth anniversary of his birth. Mor.flot 19
no.3:34 Mr '59. (MIRA 12:4)

1. Nachal'nik Upravleniya svyazi i elektronoradiornavigatsii
Ministerstva morskogo flota.
(Popov, Aleksandr Stepanovich, 1859-1905) (Radio in navigation)

ATSEROV, Yu.

Work of the Radio Committee on the drawing up of a new Convention
on the Safety of Life at Sea. Mor.flot 21 no.5:43-44 My '61.
(MIRA 14:5)

1. Predstavitel' delegatsii SSSR v Komite^{te} po radio Konferentsii
ob ohrane chelovecheskoy zhizni na more 1960 g.
(Merchant marine—Safety measures)

AVETIS'YAN, G.M.; ATSEKHOVSKAYA, V.A.; SHURAY, L.I.

Effect of nicotinic acid on blood coagulation under experimental conditions. Farm. i toks. 26 no.2:216-219 Mr-Ap '63.
(MIRA 17:8)

1. Kafedra farmakologii (zav. - prof. I.E. Akopov) Kubanskogo meditsinskogo instituta imeni Krasnoy Armii.

ATSEROVA, I.S.

Historical survey of works on the active immunization against whooping cough. Zhur. mikrobiol., epid. i immun. 33 no.2:136-139 J^u '62. (MIRA 15:3)

1. Iz kabineta istorii mikrobiologii i epidemiologii Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.
(WHOOPING COUGH--PREVENTIVE INOCULATION)

ATSEROVA, I. S.

"A Comparative Study of the Antigeric and Immunogenic Properties of Anti-Whooping-Cough Vaccines Prepared by Various Methods." Cand Med. Sci, Second Moscow State Medical Inst imeni I. V. Stalin.
(VI, 1 Sep 54)

SO: Sum 432, 29 Mar 55

PAVLOV, P.T.; AKIMOVA, V.V.; APANASHCHENKO, N.I.; ATSEROVA, I.S.

Experimental studies on antigenic and immunogenic properties of combined vaccines against scarlet fever, diphtheria, and whooping cough. Zhur.mikrobiol.epid. i immnin. 30 no.5:42-48 My '59. (MIRA 12:9)

1. In Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(VACCINES AND VACCINATION,

scarlet fever-diphtheria-whooping cough vaccine, animal tests (Rus))

(SCARLET FEVER, immunol.

same)

(WHOOPING COUGH immunol.

same)

(DIPHTHERIA, immunol.

same)

ATSEROVA, L.S.

Experimental studies on an alcoholic whooping cough vaccine: Zhur. mikrobiol. epid. i immun. 32 no.4:34037 Ap '61. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(WHOOPING COUGH)

TEMKOV, Iv.; ATSEV, E.; DITSOVA, A.; IORDANOV, B.

Effect of largactil on epilepsy; clinical, biochemical and electroencephalographic studies. Suvrem. med., Sofia 9 no.3:3-22 1958.

1. Iz Katedrata po psichiatriia pri VMI--Sofiiia (Zab. katedrata; Prof. G. Uanov)

(EPILEPSY, ther.
chlorpromazine (Bul))
(CHLORPROMAZINE, ther. use
epilepsy (Bul))

USUNOFF, G. [Usunov, G.]; ATZEV, E. [Atsev, E.]; MIHAJOV, S.[Mikhailov, S.]

Changes in cerebral electric activity of cats in case of
certain physical and chemical effects on carotid sinus.
Doklady BAN 17 no.2:209-212 '64.

UZUNOV, G.; TEMKOVI, I.; ATSEV, E.

Favorable reaction to largactil in diencephalic epilepsy. Suvrem. med., Sofia 9 no.8:89-95 1958.

1. Iz katedrata po psichiatriia (Zav. katedrata: prof. G. Uzunov).
(EPILEPSY, etiol. & pathogen.
diencephalic inj., chlorpromazine ther. (Bul))
(DIENCEPHALON, wds. & inj.
causing epilepsy, chlorpromazine ther. (Bul))
(CHLORPROMAZINE, ther. use,
epilepsy in diencephalic inj. (Bul))

TEMKOV, IV., ATSEV, ~~E.~~, DITSOVA, A., YORDANOV, B.

Effect of largactyl on epilepsy; clinical, biochemical,
and electroencephalographic studies [with summary in French].
Zhur.nevr. i psich. 58 no.10:1164-1175 "58 (MIRA 11:11)

1. Kafedra psichiatrii (zav. - prof. G.Uzunov) Meditsinskogo
instituta, Sofiya.
(EPILEPSY, ther.
chlorpromazine (Rus))
(CHLORPROMAZINE, ther. use
epilepsy (Rus))

ATSEV, Iln.

Changes in electrical activity of the brain during epileptogenic stimulation of certain segments of the mesodiencephalic reticular formation. Suvrem.med., Sofia no.12:3-14 '59.

1. Iz Katedrata po psichiatriia pri VMI - Sofiia. Zav.katedrata:
prof. G. Urusov.

(BRAIN STEM physiol.)
(CONVULSIONS exper.)

ATSEV, Em.

Effect of closing and opening of the eyes on epileptic activity.
Suvrem med., Sofia no.12:68-82 '60.

1. Iz Katedrata po psikiatriia pri VMI, Sofia (Rukov. na katedrata
prof. G.Uzunov)
(EPILEPSY physiol)
(ELECTROENCEPHALOGRAPHY)
(EYES physiol)

BOZHINOV, S.; ATSEV, E.; UZUNOV, N.

Effect of novocaine in epilepsy. Nauch. tr. vissh. med. inst. Sofia 39
no.6:23-36 '60.

1. Fredstavena ot dots. S. Bozhinov, rukovoditel na Katedrata po
nervni bolesti.

(EPILEPSY ther) (PROCAINE ther)

KHRISTOZOV, Khr.; ATSEV, E.

Comparative studies on bio-electric activities of the brain and higher nervous activity in acute alcoholic intoxication. Nauch. tr. vissh. med. inst. Sofia 39 no.6:193-203 '60.

1. Predstavena ot prof. G. Uzunov, rukovoditel na Katedrata po psikiatria.

(ALCOHOLIC INTOXICATION) (REFLEX CONDITIONED)
(ELECTROENCEPHALOGRAPHY)

ATSEV, Em.

Relation of epileptic conditions to the external and internal environment. Nauch. tr. viss. med. inst. Sofia 40 no.6:77-111 '61.

1. Predstavena ot prof. G. Uzunov, rukovoditel na Katedrata po psichhiatria.

(EPILEPSY etiol) (ENVIRONMENT)

ATSEV,

(C)

BOYANOV, L.

Bulgaria

No degree listed

Member of the Higher Medical Institute (Viash Meditsinski Institut), Sofia

Sofia, Dermatologiya i Venerologiya, supplement of
Suvremenenna Meditsina, No 1, 1962, pp 34-38

"Elastorrhexis Systematica"

Co-authors:

GRIGOROV, I., Higher Medical Institute, Sofia

ATSEV, E., Higher Medical Institute, Sofia

PESHEV, I., Higher Medical Institute, Sofia

DENEV, V., Higher Medical Institute, Sofia

UZUNOV, G.; KRIGEL, E.(Bukuresht); BOZHINOV, S.; GEORGIEV, Iv.; ATSEV, Em.

Studies on the electroencephalographic picture in hyperkinetic progressive subacute encephalitis in Bulgaria. Izv. inst. fiziol. 5: 201-222 '62.

(ENCEPHALITIS diag) (ELECTROENCEPHALOGRAPHY)
(MOVEMENT DISORDERS diag)

ATSEV, E.

Some mechanisms in the activation and suppression of epileptic seizures. Zhur. nevr. i psikh. 62 no.3:384-393 '62. (MIRA 15:3)

1. Gruppa nevrologii i psichiatrii Otdeleniya biologicheskikh i meditsinskikh nauk Bolgarskoy akademii nauk i kafedra psichiatrii (rukoveditel' - prof. G. I zunov) Vysshego meditsinskogo instituta, Sofiya.

(EPILEPSY)
(ELECTROENCEPHALOGRAPHY)

ATSEV, Em., d-r, starchi nauchem sutrudnik

Scientific session on electroencephalography and clinical
neurophysiology. Spisanie BAN 8 no.2 86-89 '63

*

USUNOFF, G.; ATZEV, E.; MIHAJOV, S.

Changes in cerebral electric activity of cats in case of
certain physical and chemical effects on carotid sinus.
Dokl. Bolg. akad. nauk 17 no.1:209-212 '64

USUNOFF, G.; ATZEV, E.; AVRAMOV, S.

Change in rabbits' brain electric activity after local atebrine
application on cortex. Dokl. Bolg. akad. nauk 17 no.1:213-216
'64.

ATZEV,E.

Changes in electric brain activity after local KCl application on epileptogenic focus in cats. Dokl. Bolg. akad. nauk 17 no.1:307-310 '64

1. Submitted by Academician G.Ouzounov.

TEMKOV, Iv.; GULUBOVA, M.; DASHINOVA, N.; AISEV, E.

Clinical and electroencephalographic studies on the therapeutic action of α -ethylsuccinimide and α -methylsuccinimide (Zarontine) in epilepsy (petit mal). Nevropsikh nevrokhir 3 no.1:37-47 '64.

USUNOFF, G. [Uzunov, G.]; ATZEV, E. [Atzev, E.]; AVRAMOV, S.

Change in rabbit's brain electric activity after local
atervine application on cortex. Doklady Ban 17 no.2:
213-216 '64.

ATZEV,E.; AROUTYUNOV, V.

Simultaneous macro- and micro-electrode investigations of certain epileptic manifestations in cats' somatosensory cortex.
Dokl. Bolg. akad. nauk 18 no.2:191-194 '65

1. Submitted on November 10, 1964.

L 02155-67
ACC NR: AP6035989

SOURCE CODE: BU/0011/65/018/003/0271/0274

ATZEV, E., AROUTYUNOV, V., Institute of Physiology of the Georgian Academy of Sciences, Tbilisi, USSR; Group of Neurology and Psychiatry, Bulgarian Academy of Sciences

"Relations between Neuronal Discharges in Somatosensory Cortex and Secondary Forbes Response in Cats"
22

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 18, No 3, 1965, pp 271-274

Abstract: [English article] The study investigated the relations between neuronal discharges in the somatosensory cortex and the so-called secondary response of Forbes, the nature of which is not sufficiently clear yet (see, e.g., E. Crighel, V. Nestianu, A. Kreindler, Stud. cercet., 4, 1959, 125; K. M. Kulanda, in: Fundamental Questions of Electrophysiology of the CNS, Kiev, 1962). The study was a part of a systematic investigation of the cortical-subcortical mechanisms of sensory regulation by means of macro- and micro-electrode investigations at the Institute of Physiology of the Georgian Academy of Sciences under the guidance of its Director S. P. Narikashvili. Tests were carried out on fifteen adult cats under nembutal narcosis of varying intensity. In almost one third of the neurons investigated, the relation between the secondary evoked potential in the EEG and its corresponding secondary discharge, response is similar, in principle, to the

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L 02155-67

ACC NR: AP6035989

relations between the primary evoked potential and its associated primary discharge response. The article concludes with a discussion of the possible explanation of the observed phenomena. This paper was presented by Academician G. Usunoff on 10 November 1964. Orig. art. has: 3 figures. [JPRS]

TOPIC TAGS: cat, electrophysiology, EEG, neuron, neurophysiology

SUB CODE: 06 / SUBM DATE: 10Nov64 / SOV REF: 003 / OTH REF: 012

Card 2/2 fdh

ATSEV, S.

Cytophotometric research on deoxyribonucleic acid dynamics
in spermatogenic miosis. Dokl. Bolg. akad. nauk 17 no.5:495-
497 '64.

1. Predstavleno chlen-korrespondentom K. Bratanovym.

KHADZHIOLOV, Asen Ivanov, akad., 1903 (Sofia); ATSEV, S. (Sofia); BOZDUGANOV, A.

Contribution to radichistology I. Cell and tissue alterations in
some organs under the action of gamma radiation of radioactive cobalt.
Izv. Inst. morf. BAN 3:43-54 '59. (MEAI 9:5)

1. Zavezhdasht, Katedra po khistologii i embriologii pri Visshia
mediteinski institut, Sofia. Direktor, Institut po morfologii pri
Bulgarskata akademiiia na naukite, Sofia (for Khadzhilov).
(HISTOLOGY) (TISSUES) (GAMMA RAYS) (RADIOISOTOPES)
(COBALT) (CELLS)

ATSEV, S.

ATZEV, S. [Atsev, S.]

Cytochemical studies of ribonucleic acids in the nuclear and cytoplasmatic structures with the aid of pyronine G.
Doklady BAN 15 no.5:535-538 '62.

1. Institut für Morphologie an der Bulgarischen Akademie der Wissenschaften. Vorgelegt von Akademiemitglied A.I. Hadjioloff [Khadzhiolov, A.I.].

ATSEV, Svetoslav

A cytophotometer for the visible spectrum with a photoresistance
detector. Izv Inst morf BAN no.5:171-175 '62.

ATSEV, S.

Radiosensitivity of spermatogoniae, Doklady BAN 16 no.3:301-304
'63.

1. Predstavleno akad. A.I. Kadzhilovym.

ATSEV, S.

On the susceptibility of spermatogonia to radiation. Dokl.
Bolg. akad. nauk 16 no.3:301-304 '63.

1. Predstavleno akad. A. I. Khadzhicolovn.
(SPERMATOZOA) (RADIATION EFFECTS)

ATSEV, S.

Experiments in relation to the influence of increased
radioactivity of the medium on the hemopoiesis in white
mice. Izv Inst morf BAN 9/10:185-191 '64.

VASILENKO, S.; ATSEV, S.

Poliomyelitislike properties of Coxsackie A-11 virus. Vop. virus.
10 no. 6:685-689 N-D '65 (MIRA 19:1)

1. Nauchno-issledovatel'skiy institut epidemiologii i mikro-
biologii, Sofiya.

Microbiology

BULGARIA

ATZEV, S., Cytopathological Laboratory, Institute of Epidemiologic and Microbiologic Research

"The Feasibility of Graphic Representation of Viral-Cellular Interactions"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 3, 1966, pp 245-248

Abstract: [French article] The existing methods for the study of cytopathogenic effects are basically static and do not supply any details regarding the characteristics and sequence of cellular modifications. G. Penso (Acta virologica, 3, 1959, Suppl., 33) was the only one to develop an approach which attached a quantitative measure to the morphologic changes (8 types of cells). The present article outlines another set of indexes based on the modifications of the nucleotide and chromatic systems of the nucleus which are very sensitive to viral infections. The definitions of the seven degrees of viral-cellular interactions (covering also degrees of cellular and nuclear preservation) are illustrated with numerous photographs. The paper concludes with an attempt to develop a graphic representation of the viral-cellular interactions. There are 3 Bulgarian and 1 Western reference. (Manuscript received, 14 Dec 65.)

ATSEV, V.; ARNAUDOV, N., inzh.

Balkan Mountains Coal Field, basic resource for the Bulgarian coking coal. Min delo 16 no.11:1-2 '61.

1. Direktor, Durzhavno minni predpriatie "Balkanski basein" (for Atsev)
2. Glaven inzhiner, Durzhavno minno predpriatie "Balkanski basein" (for Arnaudov)

(Coke)

ATSEVA, E.; GULUECV, G.

Production of good-quality waterproof polished paper from local materials. p.43. LEKA PROMISHLENOST. (Ministerstvo na lekata i khranitelnata promishlenost) Sofiia. Vol. 5, no. 6, 1956

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 5, no. 12, December 1956

Country : USSR
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 11, 1958, No 48979

Author : Atsiferova, T.A.
Inst : Gor'kov University
Title : Pollination of Alfalfa by Bees.

Orig Pub: Pchelovodstvo, 1957, No 7, 28-32

Abstract: According to the observations of Gor'kov University on the kolkhozes (collective farms) of Penzenskaya Oblast, where low and inconsistent yields of alfalfa seeds are noted, pollination by bees is assured only when they visit a blossom more than once. Therefore, optimum saturation of the field with bees is necessary. The principal pollinators are wild, solitary bees but their number fluctuates greatly from year to year.

Card : 1/3

M-80

Country: USSR
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 11, 1958, No 48979

Therefore, in years when the number of wild bees is small, it is recommended that beehives (not less than one bee family per hectare) be brought over two to three days before the beginning of blossoming. The greatest frequenting of alfalfa by the bees is noted on warm, clear days. Alfalfa varieties the Improved Dol'shov'yasskaya and the Penza hybrid, developed in Penzenskaya Oblast, are distinguished by great mellification and are visited by the bees two or three times more frequently than the Zaykevich blue hybrid. Increase in the seed yield is achieved by now-

Card : 2/3

ATSIROV, S., Cand Phys-Math Sci --(diss) "Study of ^{the} solution of the system of non-linear integral equations." Baku, 1959. 3 pp (Min of Higher Education USSR. Azerbaydzhan State U im S.M. Kirov. Turkmen State U im A.M. Gor'kiy), 100 copies (Kb, 31-59, 113)

ATSTOPAS, F. I. (Vil'nyus)

"The Use of Computers in Medicine."

report presented at the 3rd Conference on the use of Mathematics in Biology, Leningrad University, 23-28 Jan 1961.

(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963, pp. 5-11

(Moscow Agricultural Academy "Imeni Timiryazev")

ATSUS-ATSKAS, I. A.

22515

Atsus-Atskas, I. A. Bezvrednaya Norma Sernoj Kisloty V Tver-doi
Kozhe. Trudy Tekhn. Fak. Kaunassk. Gos. Un-Ta, I, 1949
S. 79-108. — Na Litov. Yaz. — Rezyume Na Rus. Yaz
Bibliogr: S. 108

SO:

Letopis' No. 30, 1949

ATSUTA, R.V.; KHATSET, F.I.; CHOBOROVSKAYA, I.S.

Precise methods of testing soil mixes with organic binding
materials. Avt. dor. 27 no.4&20 Ap '64. (MIRA 17:9)

Alexander Mikhailovich Krivisskii is 60 years old. Ibid. 19

ARENDS, V.F.; ATSYUKOVSKIY, A.G.; KRAMARENKO, L.S.; FEDOTOVSKIY, A.P., red.;
ANTONOV, A.F., arkhitektor, spets. red.; BARANOV, I.A., tekhn. red.

[Handbook for the young construction worker] Spravochnik molodogo
stroitelia. Murmansk, Murmanskoe knizhnoe izd-vo, 1961. 367 p.
(MIRA 14:11)
(Building)

AUTHOR:

Atsyukovskiy, V. A. (Moscow)

SOV/103-19-11-10/10

TITLE:

Logarithmic Method for the Construction of the Real Frequency Characteristic of an Automatic Control System
(Logarifmicheskiy sposob postroyeniya veshchestvennoy chastotnoy kharakteristiki sistemy avtomaticheskogo regulirovaniya)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 11,
pp 1073 - 1076 (USSR)

ABSTRACT:

A graphic method for the construction of the real frequency characteristic of a control system is described. This method can be applied without time wasting calculations. It permits finding real radices of linear equations of any given potential. If carefully designed, the diagram makes it possible to find radices up to the third digit. This method is based on Gauss' tables for logarithms of sums and differences. According to the logarithms of these figures the sum or difference of two figures can be found. There are 4 figures, 2 tables, and 1 Soviet reference.

Card 1/2

Logarithmic Method for the Construction of the Real
Frequency Characteristic of an Automatic Control System

SOV/103-19-11-10/10

SUBMITTED: May 28, 1957

Card 2/2

USOONM-DC-60,531

PHASE I BOOK EXPLOITATION

SOV/5539

Atsyukovskiy, Vladimir Akimovich

Yemkostnyye differentsiyal'nyye datchiki peremeshcheniya (Differential Capacitive Displacement Transducers) Moscow, Gosmorgosdat, 1960. 100 p. (Series: Biblioteka po avtomatike, vyp. 12) Errata slip inserted. 12,000 copies printed.

Editorial Board: I.V. Antik, S.N. Vashenskiy, V.S. Kulebakin, A.D. Smirnov, B.S. Sotskov, Ye. P. Stefani, and N.N. Shumilovskiy; Ed.: D.V. Svecharnik; Tech. Ed.: K.P. Vorodina.

PURPOSE: This book is intended for engineers and technicians in the field of automatic contact and measurement of nonelectric quantities by electrical methods.

COVERAGE: The author discusses the principle of operation, basic types, and fields of application of differential capacitive displacement transducers. Examples of designing capacitive transducers and certain recommendations on the construction of a-c servomechanisms with such transducers and their elements are given. The author thanks D. M. Vesblad, Engineer, and V.A. Maksinov, Electromechanic, for

Card 1/4

AM6032159	Monograph	UR/
Atayukovskiy, Vladimir Akimovich		
Capacitive displacement transducers (Yemkostnye preobrazovateli pereobrazovateli peremeshcheniya) Moscow, Izd-vo "Energiya", 1966. 277 p illus., biblio. 6,000 copies printed.		
TOPIC TAGS: capacitive transducer, transducer, displacement transducer, communication line, electronic circuit, communication channel, electric capacitance.		
PURPOSE AND COVERAGE: This book is intended for scientists and engineers specializing in electrical measurement of non-electric quantity magnitudes, and for those in automation and computer field. It discusses the principle of operation for capacitive displacement transducers and the attempt in synthesizing them to reproduce the linear and functional relationships characteristic of electromechanical computers and measuring devices. Recommendations and examples pertinent to the design of high stability capacitive transducers are given. Ye. P. Novodvorskiy, D. V. Svecharnik, Yu. M. Pul'yer and B. M. Abramov read the manuscript and provided comments and advice. There are 62 references of which 61 are Soviet.		
Card 1/4	UDC: 621.3.011.4	

ACC NR: AM6032369

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ACC NR: AM6032369

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SUB CODE: 09/ SUBM DATE: 03Jun66/ ORIG REF: 059/ OTH REF: 003/

Cord 4/4

ATSYUKOVSKIY, V.A., inzh. (g.Zhukovskiy)

Use of phasor diagrams in the analysis of networks with
electric transformer machinery. Elektrichestvo no.2;61-63
(MIRA 15:2)
F '62.

(Servomechanisms)

ATTAROVA, I.N., kandidat meditsinskikh nauk

So-called inflated cavern. Probl. tub. no.5:68-70 S-0 '54.
(MIRA 7:12)

1. Iz diapsernogo sektora Instituta tuberkuleza Akademii
Meditinskikh nauk SSSR (dir. Z.A.Lebedeva)
(TUBERCULOSIS, PULMONARY,
cavitation, distended caverns)

ATTAROVA, I.N., kand.med.nauk, RUDOV, N.M., kand.med.nauk.

Clinical course of tuberculosis as related to drug-resistance in
Mycobacterium tuberculosis and its catalase activity [with summary
in French]. Probl. tub. 36 no.4:26-30 '58 (MIRA 11:?)

1. Iz dispansernogo sektora (zav. - prof. M.I. Oyfebakh) Instituta
tuberkuleza AMN SSSR (dir. Z.A. Lebedeva).

(TUBERCULOSIS, PULMONARY, microbiol.

drug ther., resist. & catalase activity of M. tuberc.
(Rus))

(CATALASE,

in M. tuberc. resist. to drug ther. (Rus))

(MYCOBACTERIUM TUBERCULOSIS, metabolism,
catalase, in drug-resist. strains (Rus))

ATTAROVA, I.N., kand. med. nauk; UVAROVA, O.A., kand. med. nauk

Case of an atypical course of metastases in hypernephroma.
Vest. rent. i rad. 40 no.1:62-63 Ja-F '65. (MIRA 18:6)

1. Dispansernyy sektor (zav.- prof. M.I. Oyfebakh) i
patomorfologicheskoye otdeleniye (zav.- prof. V.I. Puzik)
Instituta tuberkuleza (dir.- deystvitei'nyy chlen AMN SSSR
prof. N.A. Shmelev) Ministerstva zdravookhraneniya SSSR, Moskva.

~~ATTAROVA, I.P., kandidat meditsinskikh nauk~~

"Therapeutic pneumothorax; a practitioner's notes" by L.A.Frank.
Reviewed by I.P.Attarova. Probl.tub. 35 no.1:104-106 '57. (MLRA 10:6)
(PNEUMOTHORAX) (FRANK, L.A.)

AUTHOR: Attaryan, V.G., Engineer SOV/133-59-1-17/23
TITLE: Automation of Stamping Rolled Products on a Tube Billet Mill
(Avtomatizatsiya kleymeniya prokata na trubozagotovochnom
stane)
PERIODICAL: Stal', 1959, Nr 1, pp 75 - 77 (USSR)
ABSTRACT: A description of an automatic stamping installation (for
marking tube billets) proposed by the author and at present
in operation on a tube billet mill is described and
illustrated. It operates on the pendulum principle,
marking billets during their passage from hot cutting saws
without their stoppage. There are 4 figures.

Card1/1

13.5.100

73045
COV/130-60-3-17/23

AUTHOR: Atanyan, V. G. (Mechanics of Pipe Rolling Roughing
METI)

TITLE: Mechanization of the Replacement of Top Roll Pads

PERIODICAL: Metallurg, 1960, Nr 3, pp 31-32 (USSR)

ABSTRACT: The author proposed a special device which allows the use of the regular roll change mechanism for the replacement of pads. A frame made of channel irons is placed on the mechanism adapter in front of the working stand; the frame is topped by a turning device with a large diameter thrust bearing (Fig. 1b). The pad is lowered on the turning device which is moved together with the exchange mechanism. The pad is released by means of the screwdown mechanism, delivered to the stand, turned by 90° (Fig. 1c), and pushed outside where it is lifted by a crane. The same process but in reverse order allows the mounting of pads. Advantages: (1) considerable saving in time; (2) crane is free for other repair work; (3) easier and safer work.

Card 1/3

Mechanization of the Replacement of
Top Roll Pads

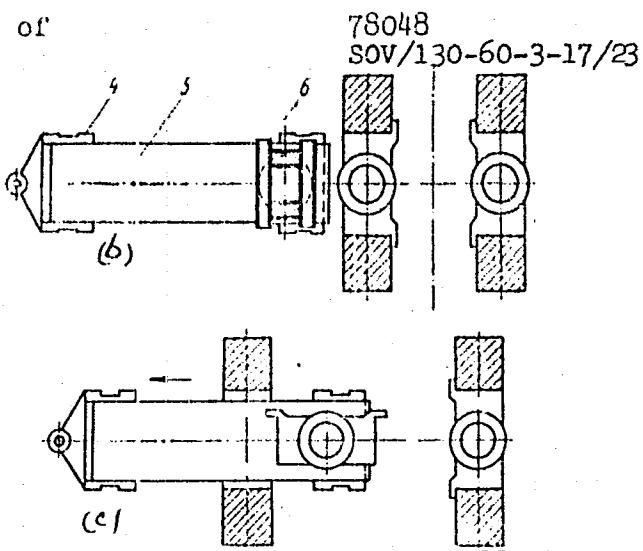
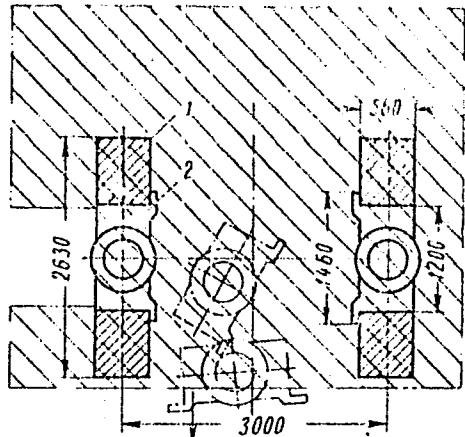


Fig. 1. Removal of top roll pad by means of roll change mechanism and turning device. (1) Bed of 900 mm working stand; (2) top roll pad; (3) closed platform above working stand; (4) adapter; (5) frame; (6) turning device.

Card 2/3

Mechanization of the Replacement of
Top Roll Pads

78048

SOV/130-60-3-17/23

ASSOCIATION: Transcaucasian Metallurgical Plant (Zakavkazskiy metal-
lurgicheskiy zavod)

Card 3/3

ATTARYAN, V.G.

Redesign of movable stopping device. Metallurg 5 no. 12:30-31
D '60.
(MIRA 13:11)

1. Zakhavkazskiy metallurgicheskiy zavod,
(Rolling mills)

ATTARYAN, V.G. mekhanik stana 900

Pipe billet clamp for hot cutting saws. Metallurg 7 no.1:33-34
Ja '62. (MIRA 15:1)

1. Zakavkazskiy metallurgicheskiy zavod.
(Pipe mills--Equipment and supplies) (Pipe cutting)

RASSOKHIN, N.G., kand. tekhn. nauk; ATTENSHTADT, K., inzh.; MEL'NIKOV,
V.N., inzh.

Experimental study of heat emission during the boiling of water
in circular channels. Trudy MEI no.6:51-58 '65.

(MIRA 18:12)

USSR/Forestry - Biology and Typology of the Forest.

K.

Abs Jour : Ref Zhur & Biol., No 15, 1958, 67987

Author : Attikov, M.A.

Inst : Tatar Forest Testing Station.

Title : Natural Reproduction and Environmental Factors in Several Types of Pine Forest of the Kuybyshev Reservoir Area.

Orig Pub : Sb. Tr. po lesn. kh-vu. Tatarsk. lesn. opytn. st., 1957,
No 13, 123-136.

Abstract : Under a mature pine forest canopy comprised of types B₂ and C₂ with a thickness of 0.5-0.6, pine underbrush grows in a quantity of 3-8 thousand per hectare and develops satisfactorily until it is 5-7 years old. In mature pine forests of type A₁ and A₂, with a density of 0.6-0.7, the pine shoots appear in large quantities but die out in 3-5 years. Reproduction is better in the clearings of A₂ A₁ type.

Card 1/3

AT'TMAN, K.Z., inzh.

New methods of scouring woolen and semi-woolen cloth. Tekst. priam. 21
no.1:69-71 Ja '61. (MIRA 14:3)
(Woolen and worsted manufacture)

ATTORJAY, Istvan, dr.

Surgical treatment of inanition due to jejunal peptic ulcer and
duodenal-ileal fistula. Orv. hetil. 102 no. 53:2528-2530 D '61.

1. Szegedi Orvostudomanyi Egyetem, I. Sebeszeti Klinika.

(GASTRECTOMY complications)
(INTESTINAL OBSTRUCTION etiology)

ATTORJAY, Istvan, dr.; KENDERESI, F., technikai munkatárs

A roentgen tube for protection of the gonads. Orv. hetil. 103 no.4:
179-180 Ja '62.

1. Szegedi Orvostudományi Egyetem, I Sebészeti Klinika.

(RADIATION PROTECTION equip. & supplies)
(GONADS radiation effects)

BOTEZ, M., prof. dr.; ATUDOREI, M., assist. ing.

Linearization of conditional equations of the compensation geodesic triangulations with the aid of the natural values of cotangents. Rev geodezie 6 no.3:18-28 '62.

1. Institutul de constructii, Bucuresti, Sectia geodezie.

BOTEZ, M., prof. dr.; ATUDOREI, M., assist. ing.; GHITAU, D., assist. ing.;
BREBAN, A., assist. ing.

Experimental measurements by means of the M.R.A.l/C.W. tellurometer.
Rev geodezie 7 no.3:5-17 '63.

1. Institutul de constructii Bucuresti .. sectia geodezie.

BOTEZ,M., prof.dr.; ATUDOREI, M., asist. ing.; GHITAU,D., asist. ing.

Experiments Made with the tellurometer in Rumania between
1961- 1963. Rev geodesie 8 no.1:27-33 '64.

1. Catedra de geodezie de la constructii, Bucuresti.

ATUTOV, P. R.

Atutov, P. R.

"Production practice of students in an industrial enterprise as one means of polytechnic training." Academy of Pedagogical Sciences RSFSR. Sci Res Inst of the Theory and History of Pedagogy. Moscow, 1956. (Dissertation for the Degree of Candidate in Pedagogical Science)

So: Knizhnaya letopis', No. 25, 1956

Atutov P.R.

SKATKIN, M.N.; ATUTOV, P.R., kandidat pedagogicheskikh nauk.

Vocational education and industrial specialization. Politekh.obuch.
no.2:3-11 F '57. (MLRA 10:5)

I.Ghlen-korrespondent Akademii pedagogicheskikh nauk RSFSR.
(Technical education) (Professional education)

ATUTOV, P.R., kandidat pedagogicheskikh nauk.

Educational and polytechnic value of industrial training.
Politekh.obuch. no.4:15-21 Ap '57. (MIRA 10:7)
(Technical education)

ATUTOV, P.R.; MEDVEDEV, R.A.

Some results of an important experiment. Politekh. pbuch. no.10:³⁻¹²
0 '58. (MIRA 11:11)
(Technical education) (Field work(Educational method))

ATUTOV, P.R.

Connection between instruction in basic science, practical work,
and the industrial training of students. Politekh.obuch. no.3:
15-20 Mr '59. (MIR 12:4)

(Technical education)

ATVFYEV, N D

Dshovy sortosheny pol'nu-dolgunysu.
Principles of cross-breeding in dolgontsu flax) Moskva, Sel'khozgiz, 1946.
87 p. maps, tables, diagrs.

AUTHOR:

Atyakin, A.K.

SOV-132-58-9-5/18

TITLE:

Core-Drilling Devices for the Study of Gas Contents in Coal Layers During Prospecting Operations (Kolonkovyye snaryady dlya izucheniya gazonosnosti ugol'nykh plastov pri razvedke mestorozhdeniy)

PERIODICAL:

Razvedka i okhrana nedr, 1958, Nr 9, pp 19-22 (USSR)

ABSTRACT:

At present there are two methods of study of the contents of gas in the coal layers: the method of qualitative study of the gas contents and the method of direct (quantitative) determination of the gas contents. In the first method, the extracted core sample is studied in the laboratory, where the gas is pumped out by means of vacuum, heating and crushing. In the second method, special core drilling devices are used. They can be divided into four groups: 1) devices built on the principle of mechanical hermetization of the core sample in the bore-hole; 2) devices for the cooling-off of the samples during their extraction. The principle of their operation is based on the possibility of controlling the process of absorption of the gas by coal; 3) devices designed for collecting the gas which escapes from the coal core samples; 4) devices for measuring the

Card 1/2

Core-Drilling Devices for the Study of Gas Contents in Coal Layers During
Prospecting Operations SOV-132-58-9-5/18

gas pressure in the coal layers. The method of applying
numerous devices is described in detail.
There are 4 diagrams and 4 Soviet references.

ASSOCIATION: TsKB Ministerstva geologii i okhrany nedor SSSR (The TsKB of
the Ministry of Geology and Conservation of Mineral Re-
sources of the USSR)

1. Coal--Geology 2. Coal gas--Determination 3. Drilling machines
+Applications

Card 2/2

ATYAKIN, A. K., Candidate Tech Sci (diss) -- "Investigation of special core equipment for determining the gas potential of coal mines in prospecting".

Moscow, 1959. 17 pp (Min Higher Educ USSR, Moscow Geological-Prospecting Inst im S. Ordzhonikidze), 110 copies (KL, No 23, 1959, 165)

ATYAKIN, A.K.

Studying the performance of core barrels for purposes of mine
gas sampling. Trudy MGRI 34:134-139 '59. (MIRA 13:12)
(Mine gases)

ATYAKIN, A. K., Cand Tech Sci (diss) -- "Investigation of special column equipment for determining the gas content of coal seams in prospecting work".

Moscow, 1960. 16 pp (Min Higher and InterSpec Educ RSFSR, Moscow Geol-Prospecting Inst im S. Ordzhonikidze), 150 copies (KL, No 14, 1960, 131)

ATYAKIN, A.K.; LITVINOV, N.N.; KARDYSH, V.G.; VOLOKITENKOV, A.A.

Classification and performance of feed mechanisms of drilling rigs.
Razved. 1 okh. nedr 26 no.11:21-27 N '60. (MIRA 13:12)

1. TSentral'noye konstruktorskoye byur'c.
(Boring machinery)

BOGDANOV, A.Sh.; ATYAKIN, A.K.; LITVINOV, N.N.

Extra-deep boring in the U.S.S.R. Razved.i okh.nedr 28
no.3:61-63 Mr '62. (MIRA 15:4)

1. Ministerstvo geologii i okhrany nedr SSSR (for Bogdanov).
2. Tsentral'noye konstruktorskoye byuro Ministerstva geologii i
okhrany nedr SSSR (for Atyakin, Litvinov).
(Boring)

ATYAKIN, A.K.; VOLOKITENKOV, A.A.; LITVINOV, N.N.; TOKAREVA,
T.N., ved. red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Testing and drilling exploratory boreholes under
complicated conditions] Oprobovanie i burenje razvedoch-
nykh skvazhin v oslozhnennykh usloviakh. Leningrad,
Gostoptekhizdat, 1963. 189 p. (MIRA 17:2)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510018-3

ATYAKIN, A.K.; LITVINOV, N.N.; YAGODKIN, V.V.

Core barrels for obtaining cores with undisturbed formation conditions. Neft. khoz. 40 no.8:5-8 Ag '62. (MIRA 17:2)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510018-3"